

# Moderna Covid-19 Vaccine



**The Moderna Covid-19 Vaccine is by Moderna Biotech Inc.**

## **What is Covid-19?**

Covid-19 stands for Coronavirus Disease 2019. Coronaviruses are a causation of colds and flu. Scientists say they have identified a new strain of coronavirus and named it after the year it was discovered, 2019, hence the abbreviated Covid-19.

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Covid-19 is a respiratory virus that can cause the following [symptoms](#):

A high temperature

A new, continuous cough (three or more coughing episodes in 24 hours or coughing continuously for more than one hour)

Loss or alteration to your sense of smell or taste.

[The majority of people who contract Covid-19 will have a mild or moderate illness](#) that requires no treatment.

Those over the age of 70 and with pre-existing conditions such as diabetes, cancer or respiratory disorders are more likely to experience severe effects from coronavirus. [One in five over 80 year old's will require hospital treatment](#) and the death rate of coronavirus in that age range is 0.66%.

## **The Vaccine**

The Moderna vaccine is an mRNA vaccine, not a traditional vaccine with an antigen. Instead of using an antigen, [messenger ribonucleic acid vaccines](#) deliver messages contained in the DNA to the rest of the cells. In coronavirus, there are sugar coated spike proteins that enter cells to enable the virus to infect the host. In mRNA vaccines, the RNA carries instructions for the building of these coronavirus spike proteins. Once injected, the vaccine enters the cells and the body begins to produce the coronavirus spike protein as instructed. This induces an immune response and if in the future the vaccinated person comes into contact with coronavirus, antibodies will be produced.

An advantage to this type of vaccine is that no actual antigen is required for injection. Traditional antigen vaccines often garner a poor response and may be injurious (for example, like the whole cell pertussis vaccine which was later scrapped in favour of an acellular vaccine, reported to have fewer side-effects).

However, this type of vaccine technology is brand new and has never been done before so its long-term effects are unknown. It is V.A.N UK's opinion that covid vaccinations are in fact, gene therapy, rather than vaccination. Journalist George Leon wrote in the

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Press and Journal newspaper that genetically engineered vaccines would 'save millions of lives' and this was the reason why people should [all embrace genetic engineering](#).

### **Composition of the Vaccine**

[This vaccine contains](#) polyethylene glycol/macrogol (PEG) as part of PEG2000-DMG. - This is a multidose vial which contains 10 doses of 0.5 mL. - One dose (0.5 mL) contains 100 micrograms of messenger RNA (mRNA) (embedded in SM-102 lipid nanoparticles). - Single-stranded, 5'-capped messenger RNA (mRNA) produced using a cell-free in vitro transcription from the corresponding DNA templates, encoding the viral spike (S) protein of SARS-CoV-2. - The other ingredients are lipid SM-102, cholesterol, 1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC), 1,2-Dimyristoyl-rac-glycero-3-methoxypolyethylene glycol-2000 (PEG2000 DMG), trometamol, trometamol hydrochloride, acetic acid, sodium acetate trihydrate, sucrose, water for injections.

### **Safety Trials**

Safety trials were conducted on over 30,420 people across the USA, aged 18-94 years. 79% of participants were white, 10% black, 5% were asian, 2% multi-racial and the remainder American Indian, Alaskan, native Hawaiian or other pacific islander. 28,000 of them had no previous symptoms of Covid-19 and so the efficacy was drawn from them. Half received the Moderna vaccine and the other half received two injections of [saline placebo](#). This is unusual for a vaccine trial as most vaccine trials use other vaccines or aluminium as a placebo. Examples are in the links:

<https://doi.org/10.1016/j.vaccine.2015.03.024>

<https://www.bmj.com/content/346/bmj.f2865/rr-7>

<https://clinicaltrials.gov/ct2/show/NCT04458545>

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<https://www.nih.gov/news-events/nih-launches-early-stage-yellow-fever-vaccine-trial>

<https://www.nih.gov/news-events/nih-research-matters/cocaine-vaccine-shows-promise-treating-addiction>

The AstraZeneca vaccine, for example, used [meningitis vaccine as a placebo](#). The Daily Mail wrote of a vaccine trial participant of the AZ jab,

**‘Ms H\*\*\*\* suffered no side effects after receiving her two doses - but this does not necessarily mean she got the placebo, as this was a meningitis vaccine which they believed would elicit a similar response to the Covid-19 jab.’**

Authors writing for the [University of Maryland Baltimore](#) UMB Data Catalog, wrote:

**‘Standard recommendations for control recipients in trials, testing an unlicensed, experimental vaccine include using an inert substance or an approved, efficacious vaccine.’**

The purpose of a placebo is to monitor whether vaccine participants have any side-effects that are not experienced by the control or if their side-effects are in greater numbers so as to determine safety. This cannot be done if the control group are given other vaccines or aluminium as ‘placebo’ if both groups then experience similar side-effects.

### **Efficacy**

The Moderna vaccine is reported to be 94.1% effective in reducing symptoms of Covid-19. Long term efficacy is not known as the participants were only followed up two months following the second injection and trials are still ongoing.

11 of 14,134 people who had the vaccine got Covid-19 symptoms, whereas 185 people of 14,073 people who had the placebo got Covid-19 symptoms within two months of their shots.

[Moderna Biotech](#) says that the vaccine is an unapproved vaccine which **may** prevent Covid-19. There has been no FDA approved Covid-19 vaccine as all are still being tested. [The European Medicines Agency](#) says that testing will continue for a further two

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years (until 2023) They are only allowed to be given out on emergency use authorisation and when the Covid-19 epidemic is over, this authorisation has to be revoked. It is V.A.N UK's opinion that world governments will then continue with the 'emergency' and all the Covid restrictions in order to give out all the vaccines as they cannot legally give them out prior to 2023 without emergency use authorisation which is only granted in an emergency.

It is currently not known how long any protection will last in those vaccinated and the ongoing trials are aiming to establish that. It is not yet known if vaccinated people [will still be infectious](#) and able to transmit the virus to others. This is why efficacy rates in the trial are based on reduction in symptoms rather than prevention.

However, like the other vaccine companies, Moderna has [sabotaged their own trial](#) by offering all the placebo group follow-up vaccines before the completion of the trial. This will mean that it will be impossible to accurately determine efficacy or long-term health outcomes as there will be no unvaccinated group to compare with.

### **Prior Animal Studies and Their Implications for Human Trials**

Scientists have been trying to develop coronavirus vaccines for decades but prior tests on animals meant they would be unsafe to extend to humans. When vaccines including those based on DNA were given to mice and ferrets, they developed antibodies but had [auto-immune lung disease](#) when challenged. Since the 1960's, it has been known that vaccinated animals can have antibody dependent enhancement of disease. That is, after being vaccinated they initially respond with high antibodies thought to correlate with immunity, but on being exposed to the wild virus, instead of being immune they develop a severe form of the illness. When cats were injected with a vaccine with the feline infectious peritonitis spike protein, using the same technology as the covid-19 mRNA vaccines, they [died earlier than the unvaccinated animals](#) when challenged with infectious peritonitis.

RSV is a similar respiratory virus to coronavirus. When a RSV vaccine was attempted in people without proper testing in 1965, the recipients produced antibodies and appeared well at first, but when they later came into contact with RSV, instead of being protected they contracted an enhanced version of the disease. Of the 20 babies who received the vaccine, 16 required hospitalisation, including two who died. Only one of the 21 babies

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who received the placebo was hospitalised (placebos are usually other vaccines) and no one died. Research into the vaccine was halted by the FDA in America.

[A 2012 study into SARS-COV](#), a type of coronavirus, found that when mice were vaccinated, all of them developed antibodies to infection, but when they were challenged with infection to see if that translated to immunity, all of them developed lung infection two days after challenge, indicating that they had been infected and thus there should be caution before administering coronavirus vaccines to humans.

Now specialists have warned that participants in covid-19 vaccine trials could not have given informed consent because they were not told that vaccines could worsen disease upon natural exposure. They wrote:

‘The specific and [significant COVID-19 risk of ADE](#) should have been and should be prominently disclosed to research subjects currently in vaccine trials....in order to meet the medical ethics standard of patient comprehension for informed consent.’

### **Side-Effects**

Very common [side-effects](#) (occurring in more than one in 10 people) are: Swelling of the underarm glands, headache, nausea, vomiting, muscle aches, joint aches and stiffness, pain and swelling at the injection site, feeling very tired, chills and fever.

Common side-effects (occurring in up to one in 10 people) are: Rash, redness or hives at the injection site.

Uncommon side-effects (occurring up to one in 100 people) are: Itching at the injection site.

Rare side-effects (occurring in up to one in 1000 people) are: Bell’s Palsy (temporary facial paralysis). Swelling of the face may occur in people who have had cosmetic injections.

Anaphylaxis may also occur at a rate unknown. [Moderna](#) says there is a remote chance of this severe allergic reaction and they list the warning signs of such a reaction which include swelling of the face and throat, difficulty breathing, a fast heart beat, dizziness and weakness and a bad rash all over the body.

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A study published in the [Journal of the American Medical Association](#) (JAMA) found that Moderna vaccine recipients were more likely to experience very common or common side-effects when compared with recipients of the Pfizer vaccine and that reactions were more pronounced after the second dose. For example, 78.3% of people experienced pain after the second dose of Moderna vaccine, compared with 68.6% of people receiving the Pfizer vaccine.

The Moderna vaccine has recently been introduced into the UK and 0.1 million first doses of the vaccine have been administered up to 5th May 2021. There have been 1081 reports of adverse reactions to the [Yellow Card Reporting System](#), as well as 606 reports where the brand of vaccine was not specified. 398 of those reports relating to Moderna vaccine were received in a single week between 28th April and 5th May. Among those reports are one case of a heart attack (non-fatal), one case of pericarditis (a heart infection), four heart rhythm disorders, three cases of deafness, one case of blindness, one case of impaired vision and 11 cases of blurred vision.

There were also two cerebral haemorrhages of which one was fatal, one cerebrovascular accident and one subarachnoid haemorrhage. Six people lost consciousness after their shot, there were eight reports of seizure, four reports of paralysis, five reports of anaphylactic shock and one report of a sudden death.

### **Menstrual Changes after Covid-19 Vaccinations**

There have been reports in the general population of menstrual changes after the receipt of covid-19 vaccinations. After Dr Kate Clancy, a medical anthropologist, had a Moderna vaccine she had a very heavy menstrual cycle and on mentioning it on social media, had a slew of responses from other women, stating they too had had either heavy, late or missed periods after the jab. Some women have reported the return of their periods after menopause. Due to the response, Dr Clancy started a survey on menstrual changes, which can be [found here](#).

The Yellow Card Reporting System has two reports of cessation of periods, two of intermittent bleeding, three of menstrual disorders, four of irregular menstruation, one of decreased menstrual bleeding and four reports of heavy menstrual bleeding after the Moderna vaccine.

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Dr Victoria Male, a Reproductive Immunologist from Imperial College London, suspects that these changes are caused by the vaccine, due to people bleeding after menopause or after taking drugs which normally stop menstruation. This could be occurring because the uterine lining contains immune cells that are normally instrumental in the formation, maintenance and the breaking down of the lining. The immune response triggered by the vaccine could cause early or abnormal bleeding, according to Dr Male.

Mainstream news sources like [the BBC](#) say there is no evidence that the vaccine causes miscarriage. However, pregnant women were excluded from the trials. Pfizer began [testing theirs on pregnant women](#) in February 2021 and tests will not be concluded until 2023 so it is far too early to say whether Covid-19 vaccines cause a risk to fertility. American data from the [Vaccine Adverse Event Reporting System](#) lists a total of 202 miscarriages and five terminations of pregnancy (it is unclear if this was due to exposure to the product). Only one accidental exposure to the vaccine in pregnancy is listed. [UK data](#) only list one case of unintended pregnancy during vaccination with Moderna vaccine.

Interestingly, unvaccinated women who have been in close proximity to vaccinated people have also reported changes in their menstrual cycles. It is unclear why this might be. The Moderna vaccine and the Pfizer vaccine do not contain any virus - merely the genetic instruction for the body to produce its own antigen. Only the AstraZeneca vaccine has any viral vector - a GMO adenovirus from chimpanzees. In theory only a viral vector vaccine would be able to shed (as do live vaccines such as flu and MMR) and transmit to close contacts. However, Pfizer seems to believe that shedding is possible. In the [‘exposure during pregnancy’](#) section of their trial information, they wrote that exposure during pregnancy (EDP) occurs if:

**‘A male participant who is receiving or has discontinued study intervention exposes a female partner prior to or around the time of conception’**

And:

**‘A female is found to be pregnant while being exposed or having been exposed to study intervention due to environmental exposure.’**

If shedding cannot happen with mRNA/DNA vaccines, what is ‘environmental exposure?’ Pfizer clarify further:



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**‘A female family member or healthcare provider reports that she is pregnant after having been exposed to the study intervention by inhalation or skin contact.’**

And:

**‘A male family member or healthcare provider who has been exposed to the study intervention by inhalation or skin contact then exposes his female partner prior to or around the time of conception.’**

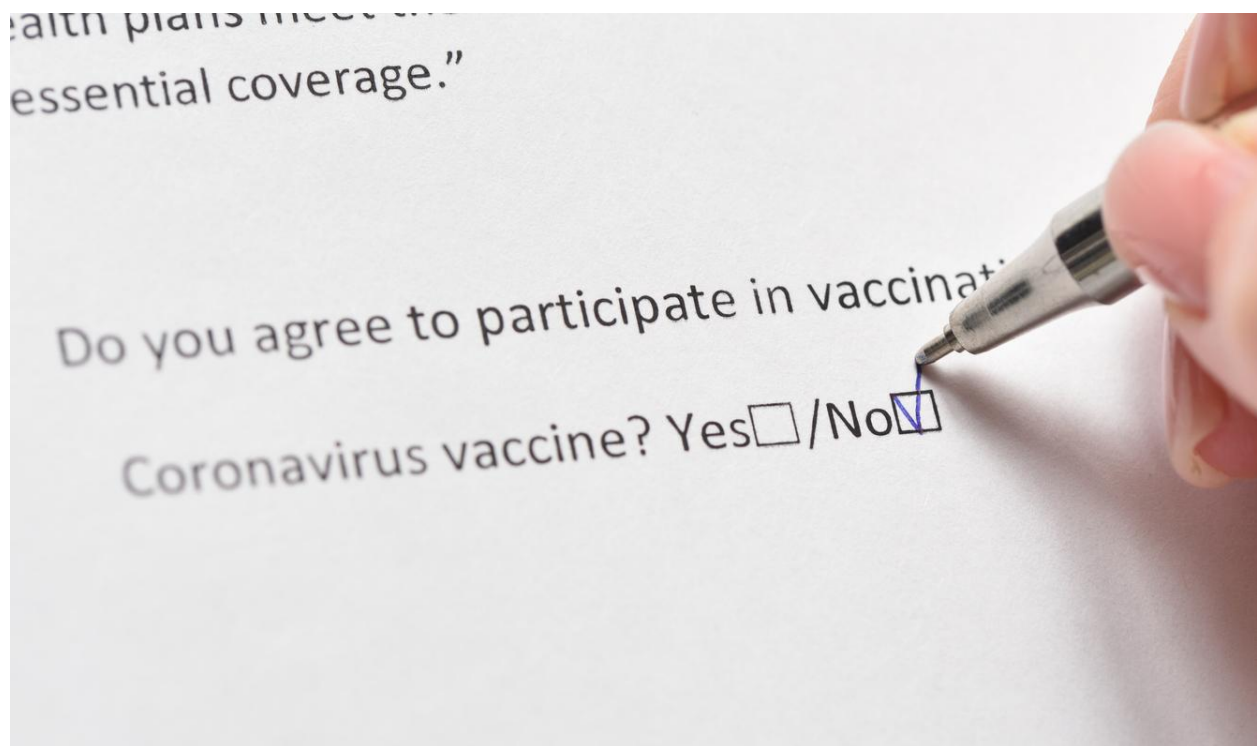
They are at least considering that their mRNA vaccine may be transmittable by breath or skin contact if they think that a vaccinated man could expose his unvaccinated partner to the vaccine. In fact, genetic engineering of vaccines such as Covid-19 vaccines have created shots that are more transmittable than traditional kinds. This is an effect that researchers find desirable to increase herd immunity and possibly to get around vaccine refusal.

Researchers published in [Trends in Microbiology](#), wrote:

**‘Regardless of the transmission capacity of contemporary vaccines, [genome engineering](#) has expanded the capacity to create new vaccines far more prone to transmission 1, 3, 7, 8, 9. In some wildlife applications, transmission is even a goal...The technology of genome engineering has advanced by leaps, enabling many new transmissible vaccine designs.’**

This may be why Pfizer are concerned about inadvertent exposure by inhalation or skin contact and it may provide an explanation for the anecdotal reports of menstrual change in unvaccinated women.

The medical and legal requirement for informed consent was barely given a mention in the Trends in Microbiology paper, which contains only one sentence regarding ‘possible social objections to human vaccine transmission.’ If the new generation of mRNA/DNA vaccines are to be transmittable then no thought has been given to the issue of contraindications either. What would happen if a contraindicated person (for example, through previous allergic reaction) were to receive the vaccine through transmission? Deaths and injuries will undoubtedly occur in an unconsenting population. The issue is far more than just a social one.



### **Blood Clots and Moderna Vaccine**

Rare blood clots and brain bleeds were found to be a side-effect of mRNA vaccines after Covid-19 vaccines were released to the public. Many of the cases involved the AstraZeneca vaccine which led to multiple European countries banning it and its withdrawal in use for under 40's in the UK. However, other vaccines including Pfizer and Moderna also have this side-effect. The Vaccine Adverse Events Reporting System (VAERS) in the USA currently has [1034 reports of blood clotting](#) after receipt of the Moderna vaccine, despite this being marketed to the UK population as a safe alternative to the AZ vaccine.

### **Contraindications and Warnings**

The only [absolute contraindication](#) listed for this injection is an allergy to any of the ingredients or excipients.

It is not intended to be given to anyone under the age of 18.

Caution is advised if:

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- You have a weak or compromised immune system
  - You have a bleeding disorder
  - You have a high fever or severe infection
  - You have a serious illness
  - You faint or have anxiety about injections
  - You are pregnant or breastfeeding.

It is not known if the vaccine is excreted in human milk. The breastfeeding network say:

“There have been [no lactating mothers in the study](#) populations of either vaccine and the decision has been made based on an understanding of the way that vaccines are handled by a lactating mother’s body. However, further studies will be undertaken as soon as possible to confirm the information on low risk.”

Despite this, they say mothers can have the vaccine and continue to breastfeed. If mothers decide to do this, they will be partaking in a medical trial.

You should not drive or use machines if you are feeling unwell after vaccination.

The vaccine may not protect against Covid-19 and the duration of protection is not known.

### **Is the Covid-19 Vaccine Mandatory?**

The British Prime Minister, Boris Johnson, has said that like other vaccinations, the covid-19 vaccine will be entirely voluntary. On 2nd December 2020, he said, ["There is no part of our culture or our ambition in this country to make vaccines mandatory."](#) He did, however, say that he strongly urged people to take it.

It is also voluntary for healthcare workers and places of employment have no legal basis with which to force vaccination on their workers. They might do so as part of their private health and safety policy, although doing so would leave them [open to discrimination and unfair dismissal claims](#) if it is related to a protected characteristic under UK law. For example, if a worker refuses the vaccine on the basis of a health condition or pregnancy. Mandatory vaccination in the workplace could also infringe a worker's right to privacy under the Human Rights Act 1998, particularly when less invasive health and safety measures are available.

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No medical procedure can be carried out without consent on a person who has the capacity to give consent and in respect of trial medications the voluntary consent of the subject is essential. If vaccines are coerced then the vaccine provider is acting illegally.

The government is, however, planning the introduction of 'vaccine passports' or 'green certificates' which would require people to prove they have had a Covid-19 vaccination, or they have had a recent negative test in order to access venues such as pubs and sporting events. They deny that this is mandating vaccination, stating that a person who doesn't wish to be vaccinated can have a test instead, but many people who refuse vaccination don't want a PCR test either, as these are not designed to detect infection and have a very high false positive rate. If such a policy were to go through, it would lead to some premises being open for only vaccinated people.

This has been described as a medical apartheid and will undoubtedly [cause discrimination and hate crime](#) if it is introduced. It is difficult to see how such a scheme would work when it isn't yet known if vaccinated people can still transmit the virus and vaccinated people can still test positive. Lawsuits would likely emerge to overturn such legislation.

(Below: A photo showing 'vaccine passport' signage outside a foreign library, where the unvaccinated are being made to wait outside for their books).



## Report an Adverse Event

If you or a loved one have had this vaccine and experienced side-effects, you can report them via the UK's Yellow Card Reporting System at <https://coronavirus-yellowcard.mhra.gov.uk/>

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